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**(54) Automatic Reserved Ticket Vending Equipment**

**(21) Utility Model Application:** Sho 55-169916

**(22) Application Date:** November 26, 1980

**(75) Deviser:** Shiro Nishimura

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**(57) Scope Of Utility Model Registration Claim**

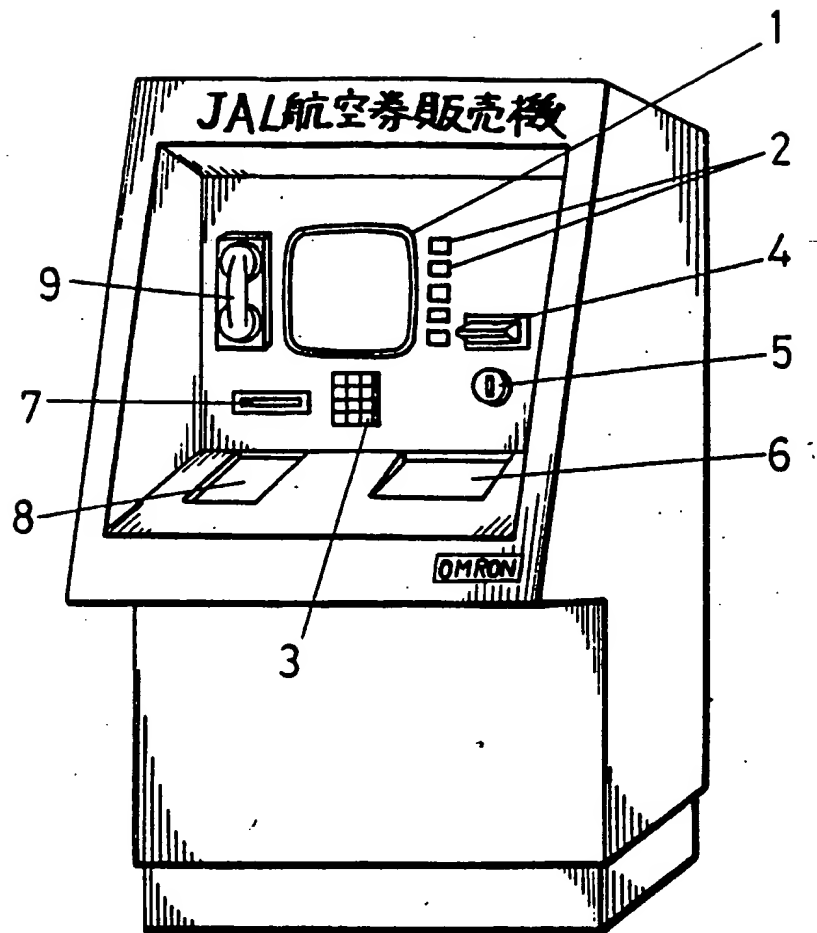
Automatic reserved ticket vending equipment that furnishes a reservation file that stores data on tickets being reserved and telephone numbers that persons making the reservations report to the center, furnishes a ten-key keypad in the ticket vending machine for reservers to input the telephone numbers, and is constructed so as to retrieve the reservation file at the center by a telephone number input on the keypad and issue a ticket by reading out the data on the reserved ticket.

**Brief Explanation Of The Drawings**

The drawings illustrate an example of this device, where Fig. 1 is an angular view of an airline ticket vending machine and Fig. 2 is a control circuit block diagram.

- 3 Ten-key keypad
- 10 CPU
- 13 Airline ticket printing unit
- 14 Input keying unit
- 17 Center CPU
- 20 Reservation file

Fig. 1



[Caption at top:]

JAL Airline Ticket Vending Machine

Fig. 2

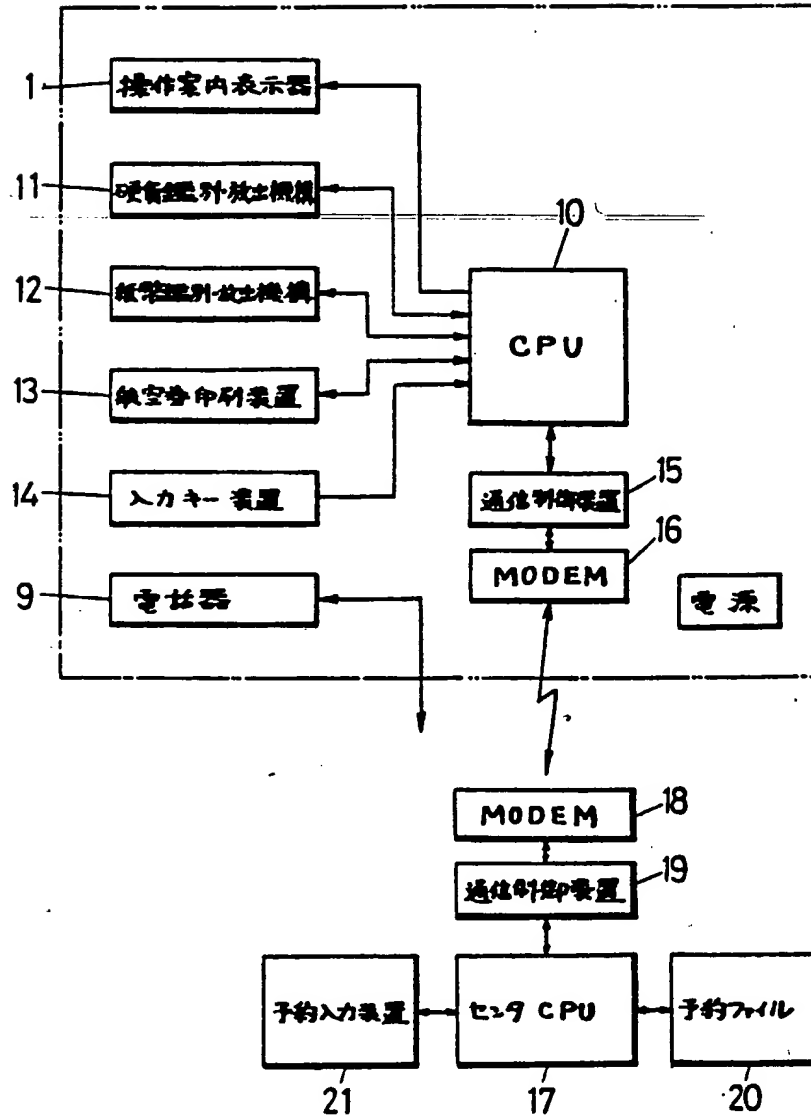


Fig. 2 Continued

- 1     Operation Guide Display
- 9     Telephone Set
- 11    Discharge Mechanism For Coins
- 12    Discharge Mechanism For Bills
- 13    Airline Ticket Printing Unit

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- 14    Input Keying Unit
- 15    Communication Control Unit  
      [Box next to 16:] Power Source
- 17    Center CPU
- 19    Communication Control Unit
- 20    Reservation File
- 21    Reservation Input Unit

End.

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**Utility Model Disclosure Sho 57-92254**

**Utility Model Registration Application**

(¥4,000)

November 26, 1980

To: Director General Of The Patent Office, Esq.

**1. ~~Title Of The Device.~~**

Automatic Reserved Ticket Vending Equipment

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5. List Of Attached Documents.

|                             |            |
|-----------------------------|------------|
| (1) Specification           | 1 document |
| (2) Drawings                | 1 document |
| (3) Copy of the Application | 1 document |
| (4) Letter of Attorney      | 1 document |

[Stamped impressions from top:]

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Patent Office, [rest illegible]

Examined For Form

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## Specification

### 1. Title Of The Device.

Automatic Reserved Ticket Vending Equipment

### 2. Scope Of Utility Model Registration Claim.

#### 1. Automatic reserved ticket vending equipment

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that furnishes a reservation file that stores data on tickets being reserved and telephone numbers that persons making the reservations report to the center,

furnishes a ten-key keypad in the ticket vending machine for reservers to input the telephone numbers, and is constructed so as to retrieve the reservation file at the center by a telephone number input on the keypad and issue a ticket by reading out the data on the reserved ticket.

### 3. Detailed Explanation Of The Device.

This device relates to automatic reserved ticket vending equipment such that does reserved sales of, for example, airline tickets.

To describe the vending of airline tickets given above as an example, the conventional method is to reserve an airline ticket by telephone and then purchase the reserved airline



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ticket at a counter within a fixed time period. After he makes the reservation the customer is given a reservation number which he records and later presents at the counter, but it is inconvenient for the customer to record the reservation number, so under a new system the reservation can be found by the name of the flight and the name of the user.

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But in a system of the new type it is difficult to key in the names of large numbers of customers when doing automatic vending of reserved airline tickets.

In this regard the present device has the object of offering automatic reserved ticket vending equipment with simple input for verifying the fact that the customer has a reservation, with no need to give a reservation number.

This device stores the telephone number given by the customer as the number for a return call when he makes the reservation and the data on the reserved ticket in a reservation file and has the said telephone number input on a ten-key keypad in the ticket vending machine so that the ticket can be issued by accessing the reservation file with the telephone number. The ticket purchase operation can thus be simplified with no need to record a specific reservation number and without a difficult input operation.

An example of this device with these characterizing features will next be explained in detail based on the drawings.

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The drawings show reservation vending equipment for airline tickets, where Fig. 1 is an airline ticket vending machine in which 1 is an operation guide display device that displays a guide for the user to follow a sequence of steps. 2 are function selection buttons for inputting destination selections. 3 is a ten-key keypad, where the previously declared return telephone number and the number of the flight are inputted. 4 is a paper money deposit opening and 5 is a coin deposit opening for inserting cash to pay for the airline ticket. 6 is a discharge opening for discharging the airline ticket after printing it inside, as well as for discharging change. 7 is a card insertion opening where a credit card is inserted when payment is made that way. 8 is a return opening for discharging the said card as well as a receipt. 9 is a telephone set for use when calling or responding to an attendant.

Fig. 2 shows the control circuit of the airline ticket vending machine described above, where 10 is a CPU housing ROM and RAM, and each unit on the circuit is controlled by following a program stored in the ROM.

11 is a discharge mechanism for coins that does coin type discrimination and counterfeit detection for the coins inserted from the said coin insertion opening 5 as well as discharging coins for change.

12 is a discharge mechanism for bills that does bill discrimination and counterfeit detection for paper money

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inserted from the said paper money insertion opening 4 as well as discharge of change when making change for 1,000 yen notes.

13 is an airline ticket printing unit that prints needed ticket data such as the flight designation, destination and date and time on the airline ticket and then issues it.

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14 is an input keying unit including the said multifunction selection buttons 2 and ten-key keypad 3, where data such as the destination, flight designation and telephone number are inputted.

The airline ticket vending machine constructed in this manner is in connected to a center by means of communications control unit 15 and modem 16.

The center has Center CPU 17, which is connected to the said airline ticket vending machine via modem 18 and communications control unit 19.

The center also has reservation file 20, and this reservation file 20 stores the return telephone number declared by the customer and ticket data on the reserved ticket.

This ticket data on the reserved ticket is inputted by reservation input unit 21. Further, this reservation input unit 21 may be used for input either at the center or at a ticket window.

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With the reservation vending equipment constructed in this manner, the first thing that happens is receipt of the reservation. That is, the customer calls up the center by telephone and requests the reservation.

This reservation request includes declaration of the date, destination, flight and number of passengers.

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The said reservation data is input with reservation input unit 21 by clerical processing at the center, where reservation file 20 is accessed to see if a reservation is possible.

When it is possible to make the reservation, the clerk asks the customer to give the passenger name and a return telephone number, which are at this time inputted into reservation input unit 21.

Then the inputted telephone number, passenger name and the previously inputted date, destination, flight and number of passengers are stored in reservation file 20.

The automatic vending of the airline ticket reserved as described above is done as follows.

That is, operation guide display 1 displays the operational steps, and the user performs the operation according to those steps. First he inputs the destination by selectively operating multifunction selection buttons 2 of input keying unit 14, and then he inputs the flight number with ten-key keypad 3 and the return telephone number he gave before.

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The said destination, flight and telephone number thus inputted are transmitted to the center, Center CPU 17 accesses reservation file 20 based on the telephone number, reads out the reservation data from the time when the reservation was made by telephone, and sends it to the vending machine which is a terminal.

At the vending machine, operation guide display 1 displays the said reservation data, that is the date, destination, flight, number of passengers, and the passenger name and telephone number.

The passenger confirms his reservation by reading this display, and presses a confirmation button among multifunction selection buttons 2.

The vending machine then displays on operation guide display 1 the fare to be inserted in response to the said confirmation, and the customer uses the appropriate deposit openings 4, 5 and 7 to pay the fare with currency, coins or a credit card.

The said deposited money undergoes amount discrimination and counterfeit detection by bill discrimination and discharge mechanism 12 or undergoes amount discrimination and counterfeit detection by coin discrimination and discharge mechanism 11, and when the amount deposited reaches the fare, airline ticket printing unit 13 issues the

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airline ticket based on reservation data already transmitted from the center.

Then the said airline ticket is discharged from discharge opening 6 and when change is needed it too is discharged from discharge opening 6, and the ticket vending is finished.

#### 4. Brief Explanation Of The Drawings

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The drawings illustrate an example of this device, where Fig. 1 is an angular view of an airline ticket vending machine and Fig. 2 is a control circuit block diagram.

- 3 Ten-key keypad
- 10 CPU
- 13 Airline ticket printing unit
- 14 Input keying unit
- 17 Center CPU
- 20 Reservation file

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Fig. 1

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[Caption at top:] JAL Airline Ticket Vending Machine

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Fig. 2

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**Fig. 2 Continued**

- 1      Operation Guide Display
- 9      Telephone Set
- 11     Discrimination And Discharge Mechanism For Coins
- 12     Discrimination And Discharge Mechanism For Bills

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- 13     Airline Ticket Printing Unit
- 14     Input Keying Unit
- 15     Communication Control Unit
- [Box next to 16:] Power Source
- 17     Center CPU
- 19     Communication Control Unit
- 20     Reservation File
- 21     Reservation Input Unit
- End.

# Certificate of Accuracy

Translation 2105

I, Thomas Wilds, do hereby depose and state that I am a translator of the Japanese language into English by profession, that I am thoroughly conversant with these languages, that I have made the attached translation of Japanese Utility Model Application Public Disclosure Sho 57-92254, that I have identified each page of the translation with my identification number 2105, and that the translation is a true and correct English version of the Japanese original to the best of my knowledge and belief.

I hereby declare under penalty of perjury under the laws of the United States that the foregoing is true and correct to the best of my knowledge.

Executed on January 18, 1993 at Greenwich CT.



Thomas Wilds

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